

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: WILLIAMS, TIMOTHY J.
JOSE, PETER J.
GRIFFITHS-JOHNSON, DAVID A.
HSUAN, JOHN J.

(ii) TITLE OF INVENTION: CHEMOTACTIC CYTOKINE

(iii) NUMBER OF SEQUENCES: 11

(iv) CORRESPONDENCE ADDRESS:

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(E) COUNTRY: U.S.A.
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(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/615,232
(B) FILING DATE: 13-AUG-1996
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: GB 9318984
(B) FILING DATE: 14-SEP-1993

(A) APPLICATION NUMBER: GB 9408602
(B) FILING DATE: 29-APR-1994

(viii) ATTORNEY/AGENT INFORMATION:

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(B) REGISTRATION NUMBER: 32,955
(C) REFERENCE/DOCKET NUMBER: 550-32

(ix) TELECOMMUNICATION INFORMATION:

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(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 73 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL: NO

(vi) ORIGINAL SOURCE:

(A) ORGANISM: *Cavia porcellus*

(D) DEVELOPMENTAL STAGE: Adult

(F) TISSUE TYPE: Bronchoalveolar lavage fluid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

His Pro Gly Ile Pro Ser Ala Cys Cys Phe Arg Val Thr Asn Lys Lys
1 5 10 15

Ile Ser Phe Gln Arg Leu Lys Ser Tyr Lys Ile Ile Thr Ser Ser Lys
20 25 30

Cys Pro Gln Thr Ala Ile Val Phe Glu Ile Lys Pro Asp Lys Met Ile
35 40 45

Cys Ala Asp Pro Lys Xaa Xaa Trp Val Gln Asp Ala Lys Lys Tyr Leu
50 55 60

Asp Gln Ile Ser Gln Xaa Thr Lys Pro
65 70

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 73 amino acids

(B) TYPE: amino acid

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL: NO

(vi) ORIGINAL SOURCE:

(A) ORGANISM: *Cavia cobaya*

(F) TISSUE TYPE: Bronchial lavage fluid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

His Pro Gly Ile Pro Ser Ala Cys Cys Phe Arg Val Thr Asn Lys Lys
1 5 10 15

Ile Ser Phe Gln Arg Leu Lys Ser Tyr Lys Ile Ile Thr Ser Ser Lys
20 25 30

Cys Pro Gln Thr Ala Ile Val Phe Glu Ile Lys Pro Asp Lys Met Ile
35 40 45

Cys Ala Asp Pro Lys Lys Lys Trp Val Gln Asp Ala Lys Lys Tyr Leu
50 55 60

Asp Gln Ile Ser Gln Thr Thr Lys Pro
65 70

! INFORMATION FOR SEQ ID NO: 3:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 24 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (primer)

(iii) HYPOTHETICAL: YES

(iii) ANTI-SENSE: NO

(ix) FEATURE:

- (A) NAME/KEY: modified_base: N is inosine
- (B) LOCATION: 12

(ix) FEATURE:

- (A) NAME/KEY: modified_base: N is inosine
- (B) LOCATION: 15

(ix) FEATURE:

- (A) NAME/KEY: modified_base: N is inosine
- (B) LOCATION: 18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

TGCTGTTTCC GNGTNACNAA CAAA

24

INFORMATION FOR SEQ ID NO: 4:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 21 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (primer)

(iii) HYPOTHETICAL: YES

(iii) ANTI-SENSE: YES

(ix) FEATURE:

- (A) NAME/KEY: modified_base: N is inosine
- (B) LOCATION: 10

(ix) FEATURE:

- (A) NAME/KEY: modified_base: N is inosine
- (B) LOCATION: 16

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

CATCTTGTCN GGCTTNATTT C

21

INFORMATION FOR SEQ ID NO:5:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 76 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Gln	Pro	Asp	Ala	Ile	Asn	Ala	Pro	Val	Thr	Cys	Cys	Tyr	Asn	Phe	Thr
1				5					10					15	
Asn	Arg	Lys	Ile	Ser	Val	Gln	Arg	Leu	Ala	Ser	Tyr	Arg	Arg	Ile	Thr
			20					25					30		
Ser	Ser	Lys	Cys	Pro	Lys	Glu	Ala	Val	Ile	Phe	Lys	Thr	Ile	Val	Ala
		35					40					45			
Lys	Glu	Ile	Cys	Ala	Asp	Pro	Lys	Gln	Lys	Trp	Val	Gln	Asp	Ser	Met
	50					55					60				
Asp	His	Leu	Asp	Lys	Gln	Thr	Gln	Thr	Pro	Lys	Thr				
65					70					75					

(2) INFORMATION FOR SEQ ID NO:6:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 74 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Asp	Ser	Val	Ser	Ile	Pro	Ile	Thr	Cys	Cys	Phe	Asn	Val	Ile	Asn	Arg
1				5					10					15	
Lys	Ile	Pro	Ile	Gln	Arg	Leu	Glu	Ser	Tyr	Thr	Arg	Ile	Thr	Asn	Ile
			20					25					30		
Gln	Cys	Pro	Lys	Glu	Ala	Val	Ile	Phe	Lys	Thr	Lys	Arg	Gly	Lys	Glu
		35					40					45			
Val	Cys	Ala	Asp	Pro	Lys	Glu	Arg	Trp	Val	Arg	Asp	Ser	Met	Lys	His
	50					55					60				
Leu	Asp	Gln	Ile	Phe	Gln	Asn	Leu	Lys	Pro						
65					70										

(2) INFORMATION FOR SEQ ID NO:7:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 70 amino acids

(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

Lys	Ser	Thr	Thr	Cys	Cys	Tyr	Arg	Phe	Ile	Asn	Lys	Lys	Ile	Pro	Lys	
1				5					10					15		
Gln	Arg	Leu	Glu	Ser	Tyr	Arg	Arg	Thr	Thr	Ser	Ser	His	Cys	Pro	Arg	
			20					25					30			
Glu	Ala	Val	Ile	Phe	Lys	Asp	Lys	Leu	Asp	Lys	Glu	Ile	Cys	Ala	Asp	
		35					40					45				
Pro	Thr	Gln	Lys	Trp	Val	Gln	Asp	Phe	Met	Lys	His	Leu	Asp	Lys	Lys	
	50					55					60					
Thr	Gln	Thr	Pro	Lys	Leu											
65					70											

(2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 71 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

Gly	Val	Asn	Thr	Pro	Thr	Cys	Cys	Tyr	Thr	Phe	Asn	Lys	Gln	Ile	Pro	
1				5					10					15		
Leu	Lys	Arg	Val	Lys	Gly	Tyr	Glu	Arg	Ile	Thr	Ser	Ser	Arg	Cys	Pro	
			20					25					30			
Gln	Glu	Ala	Val	Ile	Phe	Arg	Thr	Leu	Lys	Asn	Lys	Glu	Val	Cys	Ala	
		35					40					45				
Asp	Pro	Thr	Gln	Lys	Trp	Val	Gln	Asp	Tyr	Ile	Ala	Lys	Leu	Asp	Gln	
	50					55					60					
Arg	Thr	Gln	Gln	Lys	Gln	Asn										
65					70											

(2) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 69 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

Ser	Leu	Ala	Ala	Asp	Thr	Pro	Thr	Ala	Cys	Cys	Phe	Ser	Tyr	Thr	Ser	
1				5					10					15		
Arg	Gln	Ile	Pro	Gln	Asn	Phe	Ile	Ala	Asp	Tyr	Phe	Glu	Thr	Ser	Ser	
			20					25					30			
Gln	Cys	Ser	Lys	Pro	Gly	Val	Ile	Phe	Leu	Thr	Lys	Arg	Ser	Arg	Gln	
		35					40					45				
Val	Cys	Ala	Asp	Pro	Ser	Glu	Glu	Trp	Val	Gln	Lys	Tyr	Val	Ser	Asp	
	50					55					60					
Leu	Glu	Leu	Ser	Ala												
65																

(2) INFORMATION FOR SEQ ID NO:10:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 68 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

Pro	Met	Gly	Ser	Asp	Pro	Pro	Thr	Ala	Cys	Cys	Phe	Ser	Tyr	Thr	Ala	
1				5					10					15		
Arg	Lys	Leu	Pro	Arg	Asn	Phe	Val	Val	Asp	Tyr	Tyr	Glu	Thr	Ser	Ser	
			20					25					30			
Leu	Cys	Ser	Gln	Pro	Ala	Val	Val	Phe	Gln	Thr	Lys	Arg	Ser	Lys	Gln	
		35					40					45				
Val	Cys	Ala	Asp	Pro	Ser	Glu	Ser	Trp	Val	Gln	Glu	Tyr	Val	Tyr	Asp	
	50					55					60					
Leu	Glu	Leu	Asn													
65																

(2) INFORMATION FOR SEQ ID NO:11:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 68 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

Ser Pro Tyr Ser Ser Asp Thr Thr Pro Cys Cys Phe Ala Tyr Ile Ala
1 5 10 15

Arg Pro Leu Pro Arg Ala His Ile Lys Glu Tyr Phe Tyr Thr Ser Gly
20 25 30

Lys Cys Ser Asn Pro Ala Val Val Phe Val Thr Arg Lys Asn Arg Gln
35 40 45

Val Cys Ala Asn Pro Glu Lys Lys Trp Val Arg Glu Tyr Ile Asn Ser
50 55 60

Leu Glu Met Ser
65